

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/535,635
Source: PU
Date Processed by STIC: 3/24/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/535,635

CRF Edit Date: 3/24/06
Edited by: in

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



PCT

RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/535,635

TIME: 15:25:26

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J535635.raw

```

1 <110> APPLICANT: INCYTE CORPORATION; TRAN, Uyen K.;
2   RICHARDSON, Thomas W.; BECHA, Shanya D.;
3   ELLIOTT, Vicki S.; SWARNAKAR, Anita;
4   LEE, Soo Yeun; RAMKUMAR, Jayalaxmi;
5   WANG, Jonathan T.; CHIEN, David;
6   MURAGE, Jaji; GERA, Mili;
7   MARQUIS, Joseph P.; CHAWLA, Narinder K.;
8   NAKAMURA, Lisa; KABLE, Amy E.
10 <120> TITLE OF INVENTION: IMMUNE RESPONSE-ASSOCIATED PROTEINS
12 <130> FILE REFERENCE: PF-1629 PCT
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/535,635
C--> 15 <141> CURRENT FILING DATE: 2005-05-20
17 <150> PRIOR APPLICATION NUMBER: US 60/429,442
18 <151> PRIOR FILING DATE: 2002-11-26
20 <150> PRIOR APPLICATION NUMBER: US 60/429,839
21 <151> PRIOR FILING DATE: 2002-11-27
23 <150> PRIOR APPLICATION NUMBER: US 60/439,946
24 <151> PRIOR FILING DATE: 2003-01-13
26 <150> PRIOR APPLICATION NUMBER: US 60/446,182
27 <151> PRIOR FILING DATE: 2003-02-07
29 <160> NUMBER OF SEQ ID NOS: 64
30 <170> SOFTWARE: PERL Program
32 <210> SEQ ID NO: 1
33 <211> LENGTH: 256
34 <212> TYPE: PRT
35 <213> ORGANISM: Homo sapiens
37 <220> FEATURE:
38 <221> NAME/KEY: misc_feature
39 <223> OTHER INFORMATION: Incyte ID No: 7522043CD1
41 <400> SEQUENCE: 1
42 Met Ala Gly Ser Pro Thr Cys Leu Thr Leu Ile Tyr Ile Leu Trp
43   1           5           10           15
44 Gln Leu Thr Gly Ser Ala Ala Ser Gly Pro Val Lys Glu Leu Val
45           20           25           30
46 Gly Ser Val Gly Gly Ala Val Thr Phe Pro Leu Lys Ser Lys Val
47           35           40           45
48 Lys Gln Val Asp Ser Ile Val Trp Thr Phe Asn Thr Thr Pro Leu
49           50           55           60
50 Val Thr Ile Gln Pro Glu Gly Gly Thr Ile Ile Val Thr Gln Asn
51           65           70           75
52 Arg Asn Arg Glu Arg Val Asp Phe Pro Asp Gly Gly Tyr Ser Leu
53           80           85           90
54 Lys Leu Ser Lys Leu Lys Lys Asn Asp Ser Gly Ile Tyr Tyr Val

```

RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/535,635

TIME: 15:25:26

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J535635.raw

```

55          95          100          105
56 Gly Ile Tyr Ser Ser Ser Leu Gln Gln Pro Ser Thr Gln Glu Tyr
57          110          115          120
58 Val Leu His Val Tyr Glu His Leu Ser Lys Pro Lys Val Thr Met
59          125          130          135
60 Gly Leu Gln Ser Asn Lys Asn Gly Thr Cys Val Thr Asn Leu Thr
61          140          145          150
62 Cys Cys Met Glu His Gly Glu Glu Asp Val Ile Tyr Thr Trp Lys
63          155          160          165
65 Ala Leu Gly Gln Ala Ala Asn Glu Ser His Asn Gly Ser Ile Leu
66          170          175          180
67 Pro Ile Ser Trp Arg Trp Gly Glu Ser Asp Met Thr Phe Ile Cys
68          185          190          195
69 Val Ala Arg Asn Pro Val Ser Arg Asn Phe Ser Ser Pro Ile Leu
70          200          205          210
71 Ala Arg Lys Leu Cys Glu Glu Asn Asn Pro Lys Gly Arg Ser Ser
72          215          220          225
73 Lys Tyr Gly Leu Leu His Cys Gly Asn Thr Glu Lys Asp Gly Lys
74          230          235          240
75 Ser Pro Leu Thr Ala His Asp Ala Arg His Thr Lys Ala Ile Cys
76          245          250          255
77 Leu
80 <210> SEQ ID NO: 2
81 <211> LENGTH: 433
82 <212> TYPE: PRT
83 <213> ORGANISM: Homo sapiens
85 <220> FEATURE:
86 <221> NAME/KEY: misc_feature
87 <223> OTHER INFORMATION: Incyte ID No: 7523539CD1
89 <400> SEQUENCE: 2
90 Met Arg Glu Asn Met Ala Arg Gly Pro Cys Asn Ala Pro Arg Trp
91 1 5 10 15
92 Ala Ser Leu Met Val Leu Val Ala Ile Gly Thr Ala Val Thr Ala
93 20 25 30
94 Ala Val Asn Pro Gly Val Val Val Arg Ile Ser Gln Lys Gly Leu
95 35 40 45
96 Asp Tyr Ala Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu
97 50 55 60
98 Lys Arg Ile Lys Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys
99 65 70 75
100 His Leu Gly Lys Gly His Tyr Ser Phe Tyr Ser Met Asp Ile Arg
101 80 85 90
102 Glu Phe Gln Leu Pro Ser Ser Gln Ile Ser Met Val Pro Asn Val
103 95 100 105
104 Gly Leu Lys Phe Ser Ile Ser Asn Ala Asn Ile Lys Ile Ser Gly
105 110 115 120
106 Lys Trp Lys Ala Gln Lys Arg Phe Leu Trp Leu Ile Gln Leu Phe
107 125 130 135
108 His Lys Lys Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/535,635

DATE: 03/24/2006

TIME: 15:25:26

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J535635.raw

```

109          140          145          150
110 Val Cys Glu Lys Val Thr Asn Ser Val Ser Ser Lys Leu Gln Pro
111          155          160          165
112 Tyr Phe Gln Thr Leu Pro Val Met Thr Lys Ile Asp Ser Val Ala
113          170          175          180
114 Gly Ile Asn Tyr Gly Leu Val Ala Pro Pro Ala Thr Thr Ala Glu
115          185          190          195
116 Thr Leu Asp Val Gln Met Lys Gly Glu Phe Tyr Ser Glu Asn His
117          200          205          210
118 His Asn Pro Pro Pro Phe Ala Pro Pro Val Met Glu Phe Pro Ala
119          215          220          225
120 Ala His Asp Arg Met Val Tyr Leu Gly Leu Ser Asp Tyr Phe Phe
121          230          235          240
122 Asn Thr Ala Gly Leu Val Tyr Gln Glu Ala Gly Val Leu Lys Met
123          245          250          255
124 Thr Leu Arg Asp Asp Met Ile Pro Lys Glu Ser Lys Phe Arg Leu
125          260          265          270
126 Thr Thr Lys Phe Phe Gly Thr Phe Leu Pro Glu Val Ala Lys Lys
127          275          280          285
129 Phe Pro Asn Met Lys Ile Gln Ile His Val Ser Ala Ser Thr Pro
130          290          295          300
131 Pro His Leu Ser Val Gln Pro Thr Gly Leu Thr Phe Tyr Pro Ala
132          305          310          315
133 Val Asp Val Gln Ala Phe Ala Val Leu Pro Asn Ser Ser Leu Ala
134          320          325          330
135 Ser Leu Phe Leu Ile Gly Met His Thr Thr Gly Ser Met Glu Val
136          335          340          345
137 Ser Ala Glu Ser Asn Arg Leu Val Gly Glu Leu Lys Leu Asp Arg
138          350          355          360
139 Leu Leu Leu Glu Leu Lys His Ser Asn Ile Gly Pro Phe Pro Val
140          365          370          375
141 Glu Leu Leu Gln Asp Ile Met Asn Tyr Ile Val Pro Ile Leu Val
142          380          385          390
143 Leu Pro Arg Val Asn Glu Lys Leu Gln Lys Gly Phe Pro Leu Pro
144          395          400          405
145 Thr Pro Ala Arg Val Gln Leu Tyr Asn Val Val Leu Gln Pro His
146          410          415          420
147 Gln Asn Phe Leu Leu Phe Gly Ala Asp Val Val Tyr Lys
148          425          430
150 <210> SEQ ID NO: 3
151 <211> LENGTH: 142
152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <223> OTHER INFORMATION: Incyte ID No: 7523587CD1
159 <400> SEQUENCE: 3
160 Met Arg Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala
161 1 5 10 15

```

RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/535,635

TIME: 15:25:26

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J535635.raw

```

162 His Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe
163      20      25      30
164 Gln Ser Ser Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro
165      35      40      45
166 Glu Gly Thr Pro Asp Thr Val Tyr Ser Ile Glu Tyr Lys Thr Tyr
167      50      55      60
168 Gly Glu Arg Asp Trp Val Ala Lys Lys Gly Cys Gln Arg Ile Thr
169      65      70      75
170 Arg Lys Ser Cys Asn Leu Thr Val Glu Thr Gly Asn Leu Thr Glu
171      80      85      90
172 Leu Tyr Tyr Ala Arg Val Thr Ala Val Ser Ala Gly Gly Arg Ser
173      95     100     105
174 Ala Thr Lys Met Thr Asp Arg Phe Ser Ser Leu Gln His Arg Arg
175     110     115     120
176 Arg Pro Thr Ala Phe Ile Thr Phe Ser Lys Glu Ser Val Asn Gln
177     125     130     135
178 Gln Ser Tyr Pro Gln Ala Thr
179     140
181 <210> SEQ ID NO: 4
182 <211> LENGTH: 450
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
186 <220> FEATURE:
187 <221> NAME/KEY: misc_feature
188 <223> OTHER INFORMATION: Incyte ID No: 7523622CD1
190 <400> SEQUENCE: 4
191 Met Arg Glu Asn Met Ala Arg Gly Pro Cys Asn Thr Pro Arg Trp
193 1      5      10      15
194 Val Ser Leu Met Val Leu Val Ala Ile Gly Thr Ala Val Thr Ala
195      20      25      30
196 Ala Val Asn Pro Gly Val Val Val Arg Ile Ser Gln Lys Gly Leu
197      35      40      45
198 Asp Tyr Ala Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu
199      50      55      60
200 Lys Arg Ile Lys Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys
201      65      70      75
202 His Leu Gly Lys Gly His Tyr Ser Phe Tyr Ser Met Asp Ile Arg
203      80      85      90
204 Glu Phe Gln Leu Pro Ser Ser Gln Ile Ser Met Val Pro Asn Val
205      95     100     105
206 Gly Leu Lys Phe Ser Ile Ser Asn Ala Asn Ile Lys Ile Ser Gly
207     110     115     120
208 Lys Trp Lys Ala Gln Lys Arg Phe Leu Lys Met Ser Gly Asn Phe
209     125     130     135
210 Asp Leu Ser Ile Glu Gly Met Ser Ile Ser Ala Asp Leu Lys Leu
211     140     145     150
212 Gly Ser Asn Pro Thr Ser Gly Lys Pro Thr Ile Thr Cys Ser Ser
213     155     160     165
214 Cys Ser Ser His Ile Asn Ser Val His Val His Ile Ser Lys Ser

```

RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/535,635

TIME: 15:25:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J535635.raw

215		170		175		180
216	Lys Val Gly Trp	Leu Ile Gln Leu Phe	His Lys Lys Ile Glu	Ser		
217		185		190		195
218	Ala Leu Arg Asn	Lys Met Asn Ser Gln	Val Cys Glu Glu Val	Thr		
219		200		205		210
220	Asn Ser Val Ser	Ser Glu Leu Gln Pro	Tyr Phe Gln Thr Leu	Pro		
221		215		220		225
222	Val Met Thr Lys	Ile Asp Ser Val Ala	Gly Ile Asn Tyr Gly	Leu		
223		230		235		240
224	Val Ala Pro Pro	Ala Thr Thr Ala Glu	Thr Leu Asp Val Gln	Met		
225		245		250		255
226	Lys Gly Glu Phe	Tyr Ser Glu Asn His	His Asn Pro Pro Pro	Phe		
227		260		265		270
228	Ala Pro Pro Val	Met Glu Phe Pro Ala	Ala His Asp Arg Met	Val		
229		275		280		285
230	Tyr Leu Gly Leu	Ser Asp Tyr Phe Phe	Asn Thr Ala Gly Leu	Val		
231		290		295		300
232	Tyr Gln Glu Ala	Gly Val Leu Lys Met	Thr Leu Arg Asp Asp	Met		
233		305		310		315
234	Ile Pro Lys Glu	Ser Lys Phe Arg Leu	Thr Thr Lys Phe Phe	Gly		
235		320		325		330
236	Thr Phe Leu Pro	Glu Val Ala Lys Lys	Phe Pro Asn Met Lys	Ile		
237		335		340		345
238	Gln Ile His Val	Ser Ala Ser Thr Pro	Pro His Leu Ser Val	Gln		
239		350		355		360
240	Pro Thr Gly Leu	Thr Phe Tyr Pro Ala	Val Asp Val Gln Ala	Phe		
241		365		370		375
242	Ala Val Leu Pro	Asn Ser Ser Leu Ala	Ser Leu Phe Leu Ile	Gly		
243		380		385		390
244	Met Val Glu Leu	Leu Gln Asp Ile Met	Asn Tyr Ile Val Pro	Ile		
245		395		400		405
246	Leu Val Leu Pro	Arg Val Asn Glu Lys	Leu Gln Lys Gly Phe	Pro		
247		410		415		420
248	Leu Pro Thr Pro	Ala Arg Val Gln Leu	Tyr Asn Val Val Leu	Gln		
249		425		430		435
250	Pro His Gln Asn	Phe Leu Leu Phe Gly	Ala Asp Val Val Tyr	Lys		
251		440		445		450
254	<210> SEQ ID NO: 5					
255	<211> LENGTH: 84					
257	<212> TYPE: PRT					
258	<213> ORGANISM: Homo sapiens					
260	<220> FEATURE:					
261	<221> NAME/KEY: misc feature					
262	<223> OTHER INFORMATION: Incyte ID No: 7523711CD1					
264	<400> SEQUENCE: 5					
265	Met Arg Thr Leu	Leu Thr Ile Leu Thr	Val Gly Ser Leu Ala	Ala		
266	1	5	10	15		
267	His Ala Pro Glu	Asp Pro Ser Asp Leu	Gln His Val Lys	Phe		
268		20	25	30		

VERIFICATION SUMMARY

DATE: 03/24/2006

PATENT APPLICATION: US/10/535,635

TIME: 15:25:28

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J535635.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date